

From: ["Freeman, Tamara" <TAMARA>](#)

To: [Gravatt](#)

[Dan](#)

CC:

Date: 8/25/2014 7:16:00 AM

Subject: RE: Request: assign CIC to place five-year-review newspaper completion ad

Hi Dan. I am not familiar with the SDMS system and I do not have access. All I need is the link to the Third 5YR report (not the entire report), so that I can insert into the Ad write-up. I will be circulating the hard-copy for your concurrence this week.

Thanks.

From: Gravatt, Dan

Sent: Monday, August 25, 2014 7:45 AM

To: Freeman, Tamara

Subject: RE: Request: assign CIC to place five-year-review newspaper completion ad Tamara, per your question in your previous e-mail, this is the third FYR as stated in the executive summary I pasted at the end of this e-mail. The actual report document is too big to e-mail and is not on the internet. If you have SDMS access, it is document #30285245. The repository location is:

Cape Girardeau Public Library

711 N. Clark Street

Cape Girardeau, MO 63701

573-334-5279

Daniel R. Gravatt, PG

US EPA Region 7 SUPR/MOKS

11201 Renner Boulevard, Lenexa, KS 66219

Phone (913) 551-7324

Principles and integrity are expensive, but they are among the very few things worth having.

From: Freeman, Tamara

Sent: Friday, August 22, 2014 2:43 PM

To: Gravatt, Dan

Subject: RE: Request: assign CIC to place five-year-review newspaper completion ad [Hi Dan. I have a couple of questions. Can you send me the link to the actual report? Also, can you send me the name of the repository location?](#)

[Thanks.](#)

From: Moses, Althea

Sent: Thursday, August 21, 2014 3:28 PM

To: Gravatt, Dan

Cc: Freeman, Tamara

Subject: RE: Request: assign CIC to place five-year-review newspaper completion ad [Dan – Sorry for the delay – Tamara Freeman is working on the ad for this site.](#)

[Please anticipate a draft for your concurrence no later than Monday.](#)

[Please let me know if you have any questions or concerns.](#)

[Thanks](#)

[Althea](#)

[P.S. Please note – the CIC assignment is subject to change as we are staffing up and developing next year’s workplan. AMM](#)

From: Gravatt, Dan

Sent: Wednesday, July 30, 2014 8:10 AM

To: Moses, Althea

Subject: Request: assign CIC to place five-year-review newspaper completion ad [Althea, I’ve completed another FYR and need your assistance with publishing the completion ad. The site is the Missouri Electric Works in Cape Girardeau, Missouri \(address 824 South Kingshighway\). Attached is some information from the FYR to help you do your EJ evaluation. Let me know who you assign to this site.](#)

Executive Summary

The Environmental Protection Agency (EPA) has performed the third five-year review (FYR) for the Missouri Electric Works Superfund Site (Site) located in Cape Girardeau, Missouri. This review was initiated in December of 2013 and completed in June of 2014. The former Missouri Electric Works facility operated from 1954 until 1982 performing repairs and scrapping of transformers, capacitors and other electric equipment containing polychlorinated biphenyls (PCBs) in oils.

The soil remedy for the Missouri Electric Works Superfund site (Site) in Cape Girardeau, Missouri was selected in the 1990 Record of Decision for the soils operable unit (OU-1) included the excavation, processing, and treatment of Polychlorinated Biphenyl -(PCB) contaminated soils using thermal desorption technology. After treatment and analysis to confirm that treatment standards had been met, the treated soil was used to backfill the excavated areas. The entire area was capped with a contaminant-free soil. The upper one foot of the cap had organics added to support vegetation. The soil remedy was complete with the acceptance by the Environmental Protection Agency (EPA) of the Soil Remedial Action Report during September 2000. The trigger for the first five-year review (FYR) was the start of remedial action (RA) on-site construction, which occurred June 7, 1999.

The remedy for the groundwater portion of the remedy at the Missouri Electric Works Superfund site, designated OU-2, has not yet been fully implemented. A focused remedial investigation and feasibility study for groundwater has been conducted for the site. The EPA issued a second ROD in 2005 (2005 ROD) for OU-2 which addressed the two groundwater aquifers that had been impacted by contamination from the Site. A technical impracticability waiver for meeting the groundwater cleanup levels (maximum contaminant levels or MCLs), groundwater monitoring and institutional controls (ICs) were selected as components of the remedy for the contaminated groundwater in the fractured bedrock aquifer. Monitoring, ICs, and Enhanced In-situ Bioremediation (EISB) were selected as components of the remedy for the contaminated groundwater in the alluvium south of the MEW property. A contingent remedy including monitored natural attenuation (MNA) instead of EISB was also specified as an alternative if future data showed that MNA was occurring. These remedies have not yet been implemented. MNA data was collected in 2012-2013 which demonstrated MNA was ongoing, and an explanation of significant differences (ESD) was signed in 2013 which formally selected the contingent MNA remedy for the OU-2 alluvial aquifer.

The site assessment sampling conducted by EPA in 2014 for this FYR included sampling monitoring wells WSW-1, MW-3, MW-5, MW-11, MW-12, and cluster MW-16A/B/C. These samples were analyzed for PCBs (total and dissolved) and for volatile organic compounds (VOCs). No PCBs were found in the alluvial aquifer wells MW-16A/B/C, but low levels of trichloroethylene and daughter compounds were found in this well cluster. PCBs were found in MW-11 (a fractured bedrock aquifer well) on the former MEW site property at a concentration of 2.34 parts per billion (ppb) in the unfiltered sample. VOCs including trichloroethylene, benzene, and chlorobenzenes were found in the fractured bedrock aquifer wells.

Construction of new buildings, renovation of the existing building and associated earthmoving and regrading by the site owner on the former MEW property occurred in 2010-2011. EPA evaluated these activities in 2013 and determined that the remedy was still protective of human health and the environment. Further, EPA determined that the deed restriction placed on the site prior to implementing the soil remedy was no longer needed. An Environmental Covenant signed by the current property owner (Fronabarger Concreters), the State of Missouri, and EPA was recorded in March, 2014.

The site assessment sampling conducted by EPA in 2014 as part of this FYR found PCBs at several locations in soil on the former MEW site and in the ravine leading downhill from the site to the wetlands area, at depths ranging from the surface down to six inches (the maximum depth sampled in these areas), and a maximum concentration of 42 mg/kg at six inches in sample UA-05-6".

While there are no current human exposures to contaminated groundwater in the area, the remedies to address contaminated groundwater specified in the 2005 ROD have not yet been implemented due to the extended negotiations with the remaining PRPs on a Consent Decree to address the fractured bedrock aquifer remedy.

Wetlands adjacent to and downgradient of the site have been designated as OU-3. The site assessment sampling conducted by EPA in 2014 for this FYR found PCBs (Aroclor-1260) in several locations within the wetlands soils, at depths ranging from the surface down to five feet (the maximum depth sampled in this area), and a maximum concentration of 6.1 milligrams per kilogram (mg/kg) at 4 feet in sample LA-14-4'. Fish tissue sampling in the pond in the wetlands found PCBs at a concentration of 27 mg/kg. Additional investigation is required this area and an RI/FS is planned for OU-3. A separate Administrative Order with the PRPs to perform an RI/FS is planned.

Thanks,

Daniel R. Gravatt, PG

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